

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

03/17/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314

 EXAMINER	
ALAVI, ALI	

PAPER NUMBER

ART UNIT

DATE MAILED: 03/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,032	10/19/2000	Takeshi Takezawa	198538US0	5150

TITLE OF INVENTION: LIGHT SOURCE DEVICE AND PROJECTOR UTILIZING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

indicated unless corrected maintenance fee notification		e in Block 1, by (a) spec	cifying a new c	orrespondence address	s; and/or (b) indicating a sepa	irate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
	7590 03/17/2004			have its own certifica	te of mailing or transmission.	
OBLON, SPIVA P.C. 1940 DUKE STR ALEXANDRIA,		, MAIER & NEUS	STADT,	I hereby certify that of States Postal Service addressed to the Matransmitted to the US	ertificate of Mailing or Trans this Fee(s) Transmittal is bein with sufficient postage for fir ill Stop ISSUE FEE address PTO, on the date indicated bel	mission g deposited with the United st class mail in an envelope above, or being facsimile low.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRST	NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,032	10/19/2000	T	akeshi Takezaw	a	198538US0	5150
TITLE OF INVENTION:	LIGHT SOURCE DEVICE A	AND PROJECTOR UTIL	IZING THE SA	ме		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PU	JBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	•	\$0	\$1330	06/17/2004
EXA	MINER	ART UNIT	CI	LASS-SUBCLASS]	
ALA	VI, ALI	2875		362-345000	_	
Address form PTO/SB/ "Fee Address" indica PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN PLEASE NOTE: Unles been previously submit (A) NAME OF ASSIGN	tion (or "Fee Address" Indica or more recent) attached. Us D RESIDENCE DATA TO E as an assignee is identified be ted to the USPTO or is being NEE	correspondence tion form ag att wi wi BE PRINTED ON THE Polow, no assignee data wisubmitted under separate (B) RES	ents OR, altern m (having as a ent) and the na corneys or agen ill be printed. PATENT (print of ill appear on the cover. Completed SIDENCE: (CIT	e patent. Inclusion of a tion of this form is NC Y and STATE OR CC	of a single attorney or 2 tered patent ed, no name 3 assignee data is only approprint a substitute for filing an assountry)	
4a. The following fee(s) ar	te assignee category or categor		on the patent); ment of Fee(s):	O individual O	corporation or other private gr	roup entity government
☐ Issue Fee	e cheroseu.		• •	ount of the fee(s) is er	nclosed.	
☐ Publication Fee				card. Form PTO-203		
☐ Advance Order - # o	f Copies	O Ti	he Director is hosit Account Nu	ereby authorized by	charge the required fee(s), or (enclose an extra of	credit any overpayment, to
Director for Patents is requ	ested to apply the Issue Fee a				issue fee to the application ide	
(Authorized Signature)		(Date)		<u> </u>		
other than the applicant interest as shown by the I This collection of inform obtain or retain a benefi application. Confidential estimated to take 12 min completed application for	nd Publication Fee (if require, a registered attorney or agreecords of the United States Pration is required by 37 CFR to by the public which is to fity is governed by 35 U.S.C. tutes to complete, including gome to the USPTO. Time with the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE	ent; or the assignee or atent and Trademark Off I.311. The information file (and by the USPTO 122 and 37 CFR 1.14. The athering, preparing, and Il vary depending, upon	other party in ice. is required to to process) an is collection is submitting the the individual.			
Under the Paperwork R	SEND FEES OR COMPLE or for Patents, Alexandria, Vir deduction Act of 1995, no unless it displays a valid OM	ginia 22313-1450. persons are required to				



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,032	10/19/2000	Takeshi Takezawa	198538US0	5150
22850 7	590 03/17/2004		EXAMINER	
•	K, MCCLELLAND, MA	IER & NEUSTADT,	ALAV	I, ALI
P.C. 1940 DUKE STRI	EET		ART UNIT	PAPER NUMBER
ALEXANDRIA, V	ALEXANDRIA, VA 22314		2875	
			DATE MAIL ED: 02/17/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			ðК
	Application No.	Applicant(s)	
	09/691,032	TAKEZAWA, TAKESHI	
Notice of Allowability	Examiner	Art Unit	-
	Ali Alavi	2875	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in this ap) or other appropriate communication RIGHTS. This application is subject t	pplication. If not include n will be mailed in due	ed course. THIS
1. $igtiz$ This communication is responsive to <u>RCE filed on 30 Dec</u>	<u>ember 2003</u> .		
2. The allowed claim(s) is/are <u>1,2,4-8 and 10-31</u> .			
3. $igotimes$ The drawings filed on <u>10 October 2000</u> are accepted by the	ne Examiner.		
Acknowledgment is made of a claim for foreign priority uses a) All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents have a longer of the certified copies of the priority documents have a longer of the priority documents have a	e been received. e been received in Application No comments have been received in this of this communication to file a reply MENT of this application. nitted. Note the attached EXAMINER	national stage applica complying with the rec	quirements
6. CORRECTED DRAWINGS (as "replacement sheets") mu		anom is denoisin.	
(a) ☐ including changes required by the Notice of Draftsper		-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		, , ,	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date		Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the drawi the header according to 37 CFR 1.121	ngs in the front (not the	back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. I ;AL MATERIAL.	Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 12/30/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit	Paper No./Mail Da /08), 7. 🗌 Examiner's Amend	/ (PTO-413), ate ment/Comment	·
of Biological Material	9. Other	N CARIASO ARY EXAMINER	

Application/Control Number: 09/691,032

Art Unit: 2875

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 12/30/03 has been entered.

Allowable Subject Matter

2. Claims 1-2, 4-8, and 10-31 are allowed.

The following is an examiner's statement of reasons for allowance: Applicant's amendment has persuaded the examiner to place this application in condition for allowance. Claims 1 and 7 are independent claims and each having a reflector which is formed of a ceramic having a thermal conductivity of at least about 0.005 (cal/cm sec deg) at a temperature of 20 degree C, wherein the ceramic is composed of any material selected from the group consisting of Al₂O₃, 2Mgo.Sio₂, Mgo.Sio₂, Zro₂.Sio₂, Tio₂. SiC, Si₃N₄, and cermet. This limitation was not found in the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/691,032

Art Unit: 2875

هي و العسنان

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Ali Alavi whose telephone number is (571) 272-2365. The examiner can normally be reached between 7:00 A.M. to 5:30 P.M. Tuesday to Friday. If attempts to reach the examiner by phone are unsuccessful, the examiner's supervisor, Sandy O'Shea can be reached at (571) 272-2378 or you may fax your inquiry to the Central Fax at (703) 872-9306.

Ali Alavi

ALAW CARIASO PRIMARY EXAMINER Page 3